

Recombinant Human ISL1 293 Cell Lysate

Cat. No. ISL1-5149HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for ISL LIM homeobox 1 (ISL1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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GENE INFORMATION

Gene Name	ISL1 ISL LIM homeobox 1 [Homo sapiens]
Official Symbol	ISL1
Synonyms	ISL1; ISL LIM homeobox 1; ISL1 transcription factor, LIM/homeodomain, (islet 1); insulin gene enhancer protein ISL-1; Isl 1; ISLET1; islet-1; ISL1 transcription factor, LIM/homeodomain; Isl-1;
Gene ID	3670
mRNA Refseq	NM_002202
Protein Refseq	NP_002193
MIM	600366
UniProt ID	P61371
Chromosome Location	5q11.2
Pathway	Heart Development, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific biosystem; Synthesis, Secretion, and Inactivation of Glucose-dependent Insulinotropic Polypeptide (GIP), organism-specific biosystem;
Function	RNA polymerase II activating transcription factor binding; RNA polymerase II transcription coactivator activity; bHLH transcription factor binding; chromatin binding;

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enhancer sequence-specific DNA binding; enhancer sequence-specific DNA binding;
estrogen receptor binding; ligand-dependent nuclear receptor binding; metal ion
binding; sequence-specific DNA binding; sequence-specific DNA binding transcription
factor activity; zinc ion binding;

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